AFATDS

Advanced Field Artillery Tactical Data System

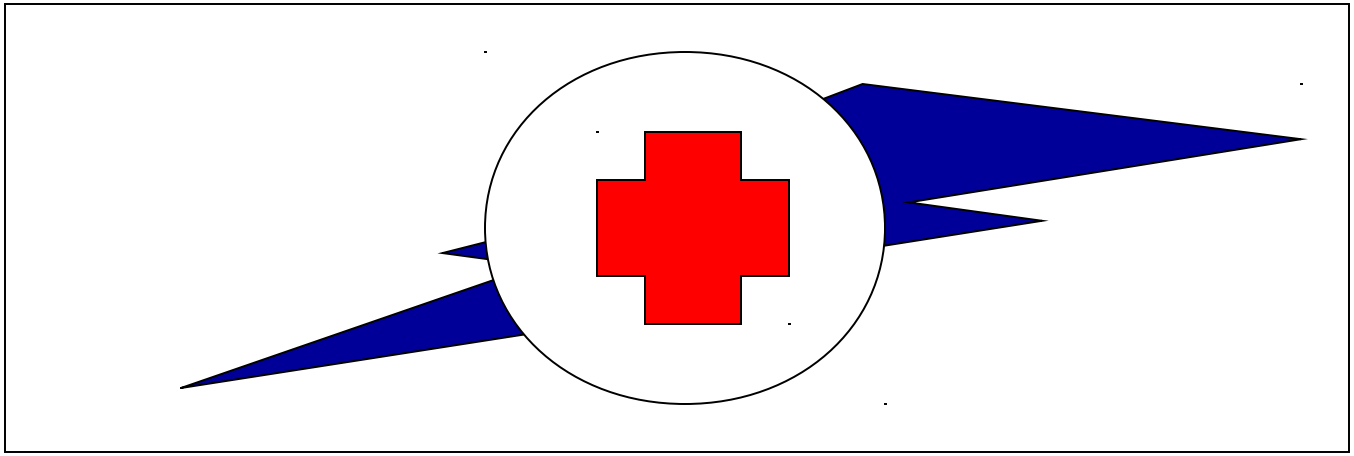
EQUIPMENT AND INITIALIZATION

DB1

OBJECTIVES

- *Equipment*
- *Software Version*
- *Configuration*
  - *Mobile Kit AN/GYK-47(V)6*
  - *Single Kit AN/GYK-47(V)7*
  - *Tadpole AN/GYK-49*
- *Setup*
  - *Single Workstation*
- *Power Sources*
  - *House*
  - *Vehicle*
  - *Generator*
- *Powering the System*
- *Log-in at the DII COE log-in window*
- *Starting AFATDS from the CDE*
- *Setting the clock*
- *Master Unit List*
- *Map Mod*
- *Map Set-up*
- *Database Backup*
- *Exit and Hardware shutdown procedures*

WARNING: HIGH VOLTAGE



DEATH ON CONTACT

May result if personnel fail to observe safety precautions

AFATDS INSTALLATION KITS

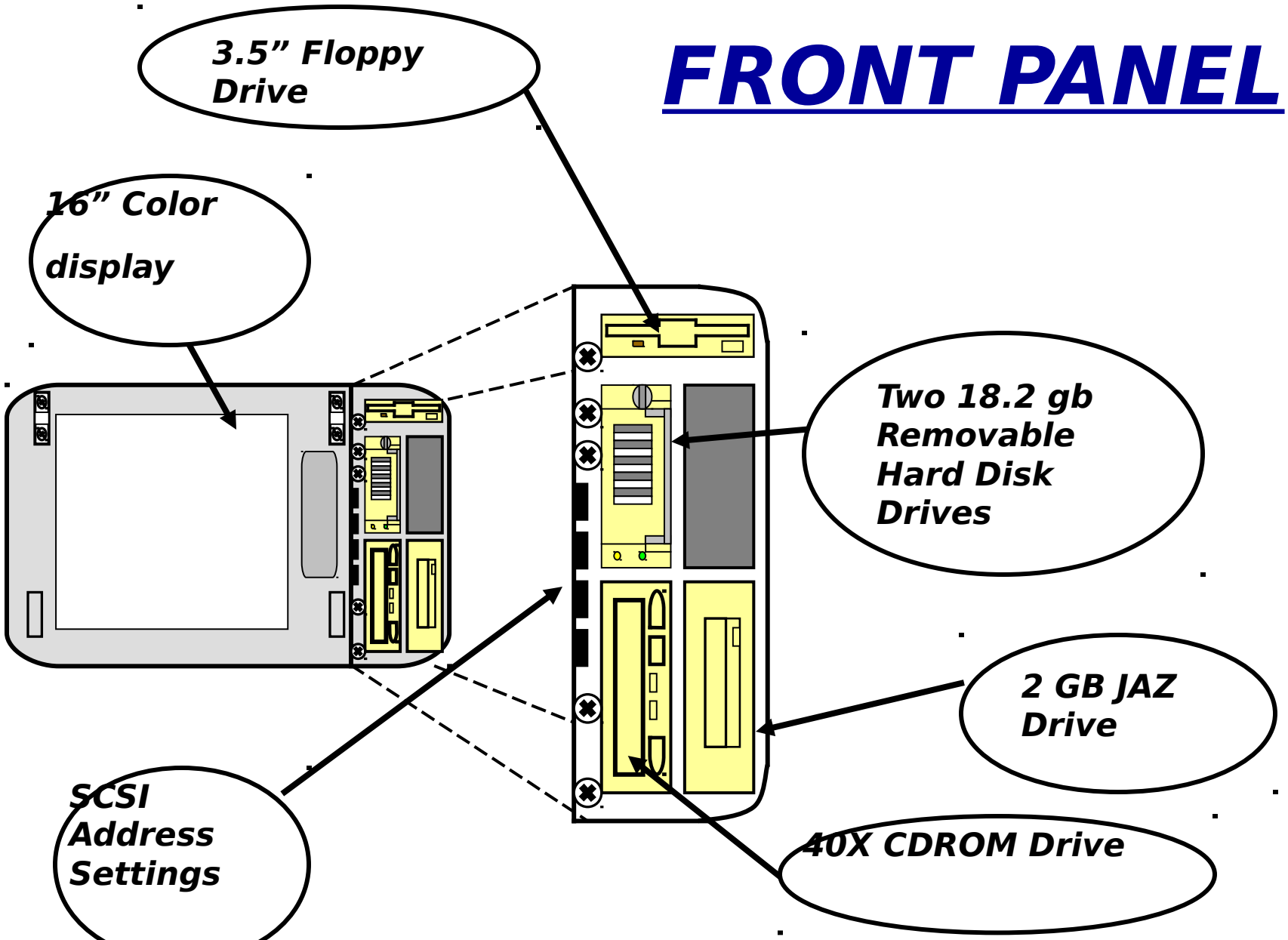
Mobile AN/GYK-47(V)6
Weight: 200 Lbs

Single AN/GYK-47(V)7
Weight: 100 Lbs

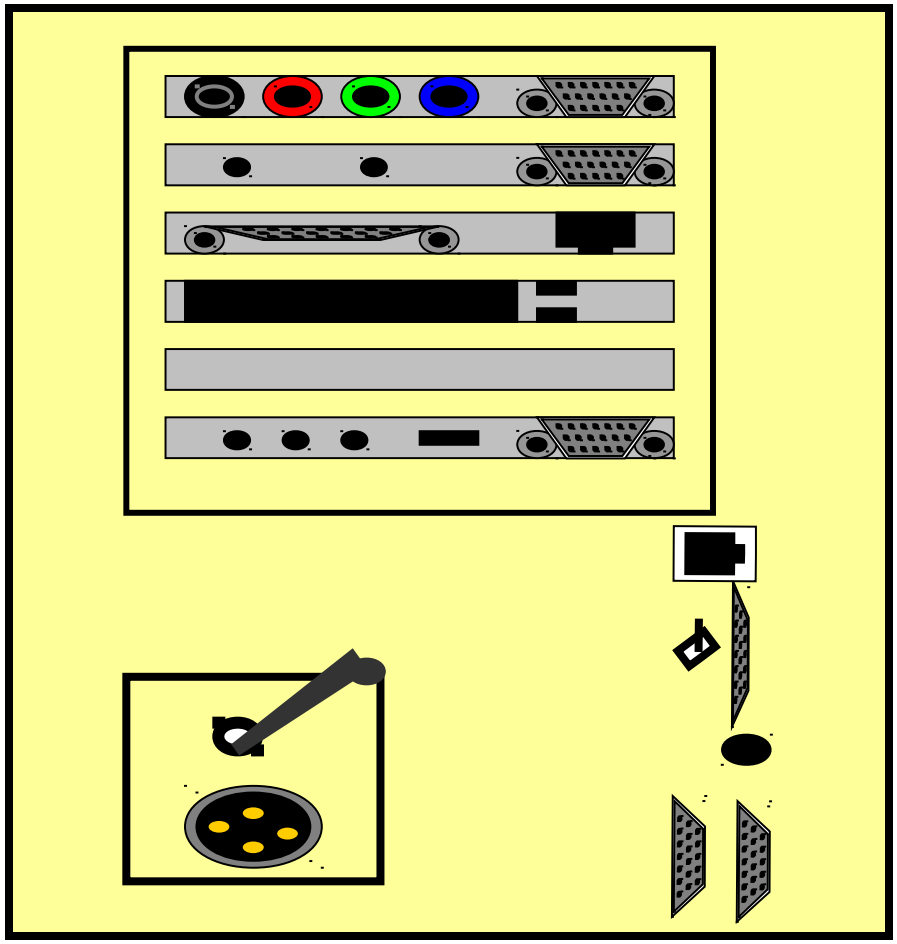
AFATDS CAPABILITIES

- *333 or 440mhz Processor CPU*
- *1 GB RAM*
- *Uninterruptible Power Supply (UPS), Monitor, CPU, and SP-TCIMS all self contained.*
- *Two Serial Port-Tactical Communications Interface Modules (SP-TCIM)*

FRONT PANEL


3.5” Floppy Drive
16” Color display
Two 18.2 gb Removable Hard Disk Drives
2 GB JAZ Drive
SCSI Address Settings
40X CDROM Drive

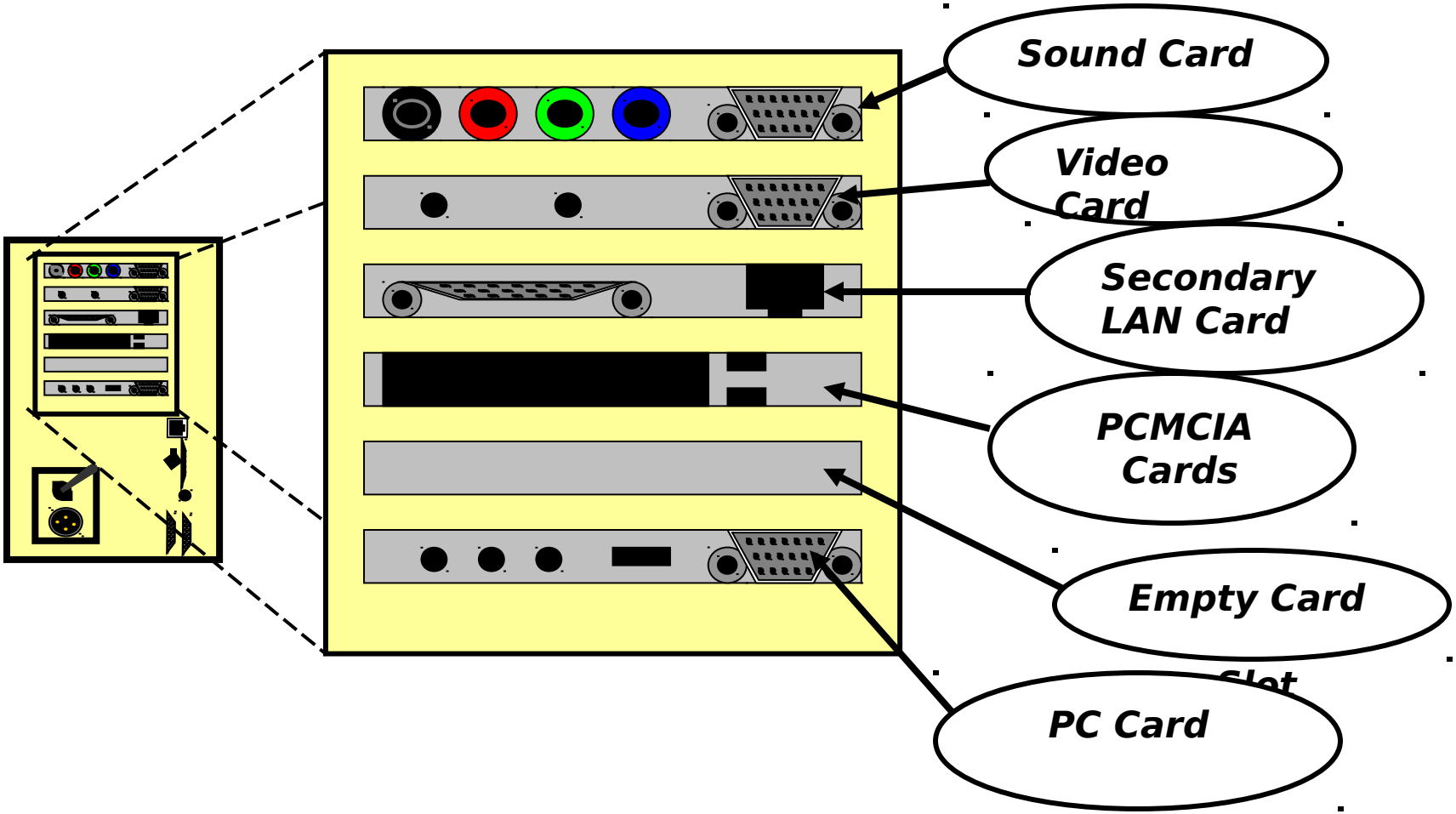
LEFT SIDE



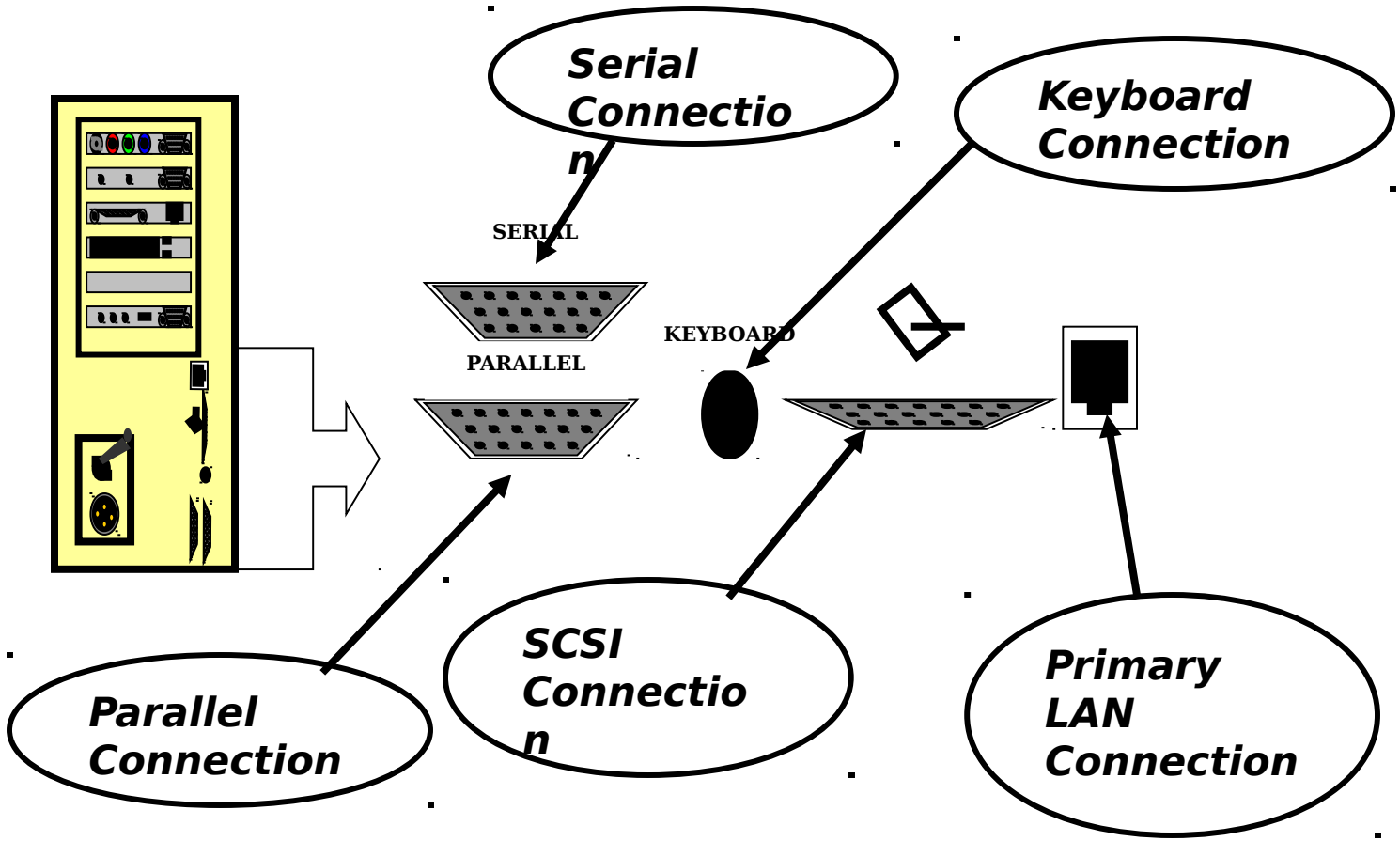
PROVIDES EXTERNAL CABLE CONNECTIONS AND POWER INPUT.

ALSO SUPPORTS SIX CARD SLOTS.

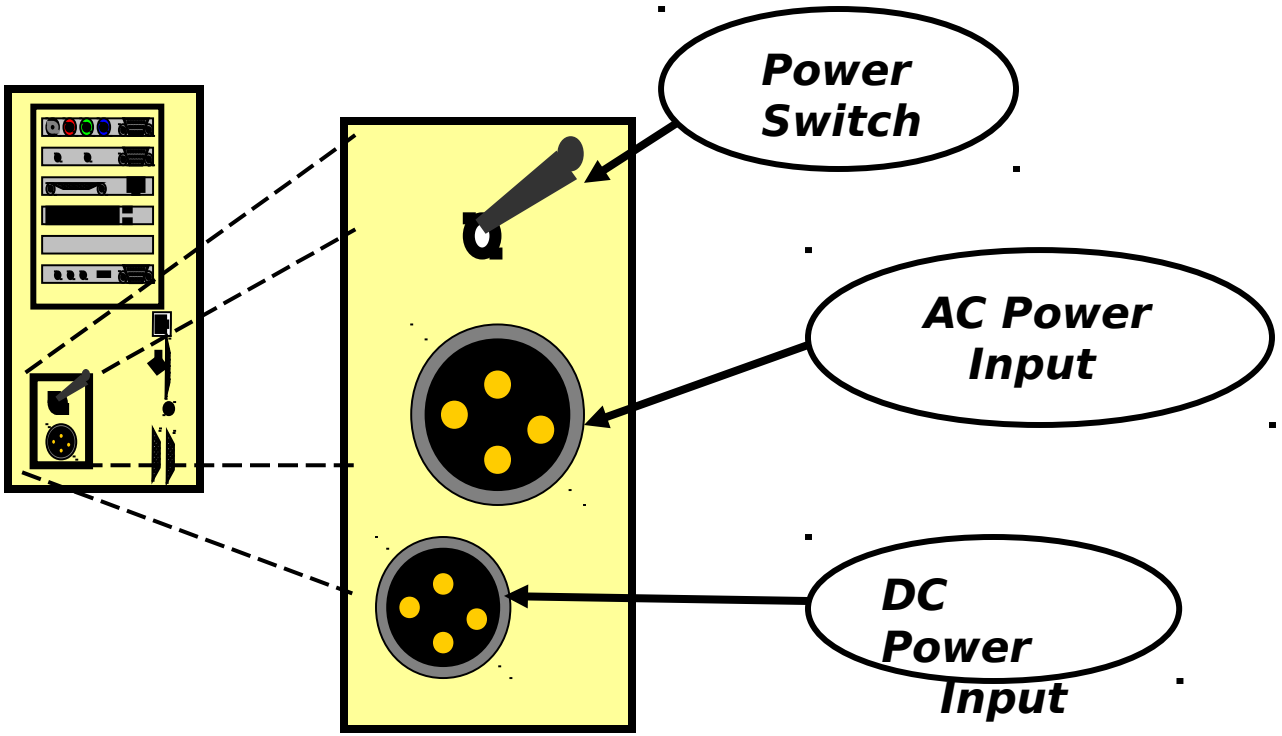
CARD SLOTS


Sound Card
Video Card
Secondary LAN Card
PCMCIA Cards
Empty Card
Slot
PC Card

ADDITIONAL CONNECTORS



POWER PANEL



AFATDS EQUIPMENT

- *Two SP-TCIMS with radio and wire cables*
- *One 21” Flat panel display (Bn and Regt)*
- *One Epson projector (Regt and Above)*
- *Keyboard*
  - *Standard Keyboard*
  - *Three button “mouse” operation*
- *External Trackball*

AFATDS EQUIPMENT

- *One 120 vac power cable*
- *One 8 port 10/100 auto sensing switch*
- *Two Cat V cables (twisted pair)*
  - *Normal*
  - *Crossover*
- *One DC/AC Inverter with cables*
- *One Lightweight Laser Jet Printer (LLP) with cables*

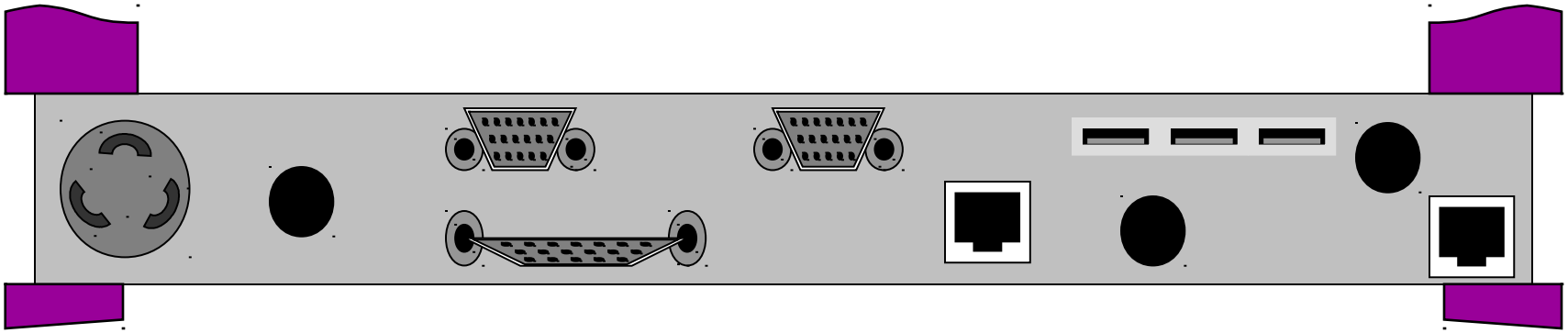
EXTERNAL POWER

- *Power can be provided by:*
  - *3kw or larger generator*
    - *TQG 803 or TQG 805*
      - *Replaces the MEP 3 and the MEP 5*
    - *MEP 16 (3kw)*
    - *110v AC house power*
    - *24v DC vehicle power*

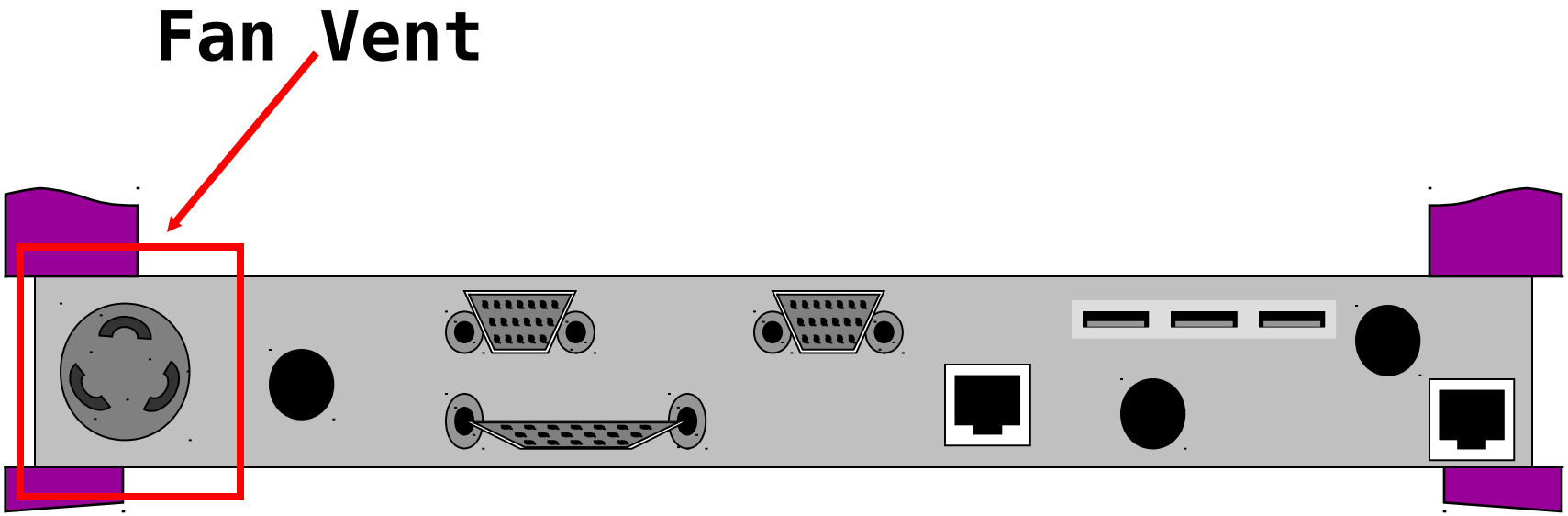
V2 Unix Laptop

AN/GYK-49

V2 Laptop Rear Panel

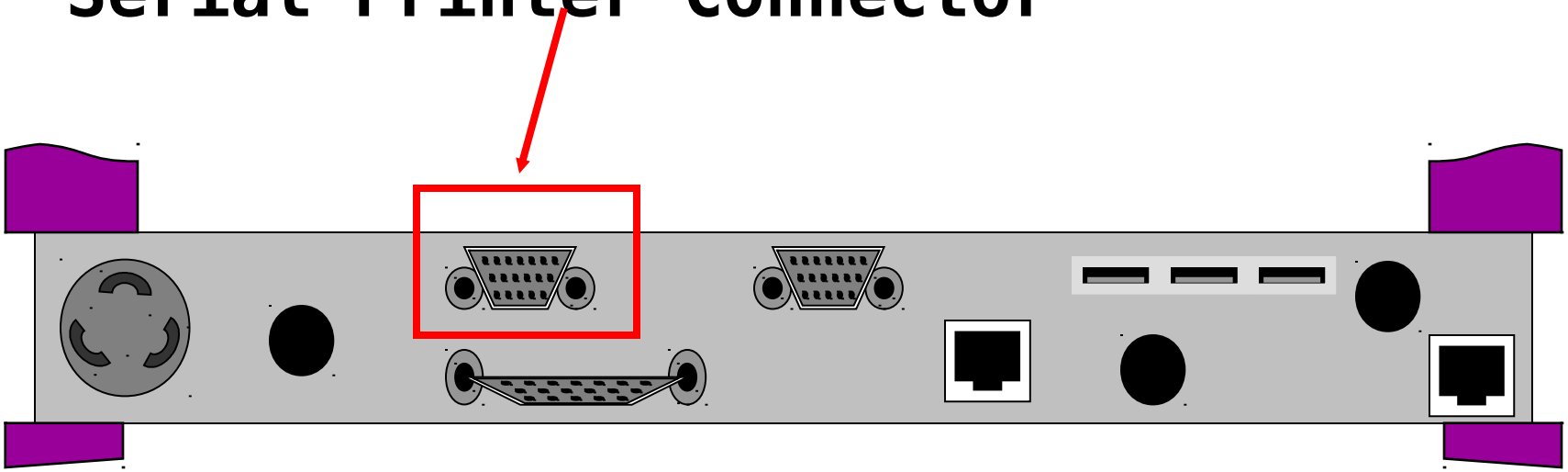


V2 Laptop Rear Panel

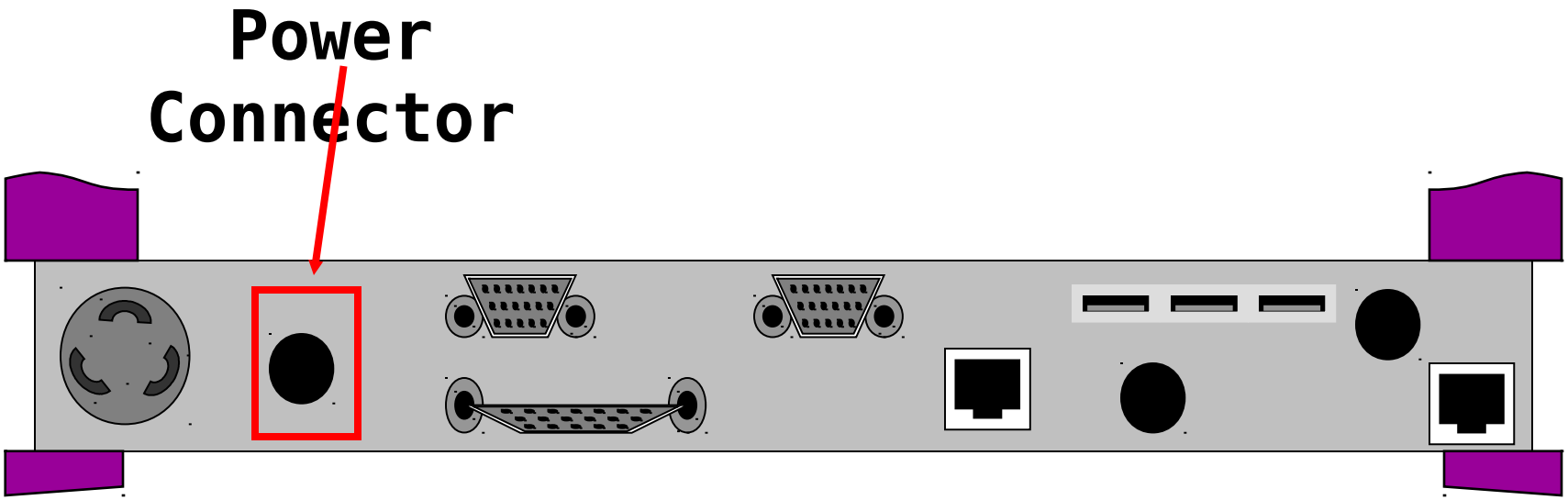


V2 Laptop Rear Panel

Serial Printer Connector

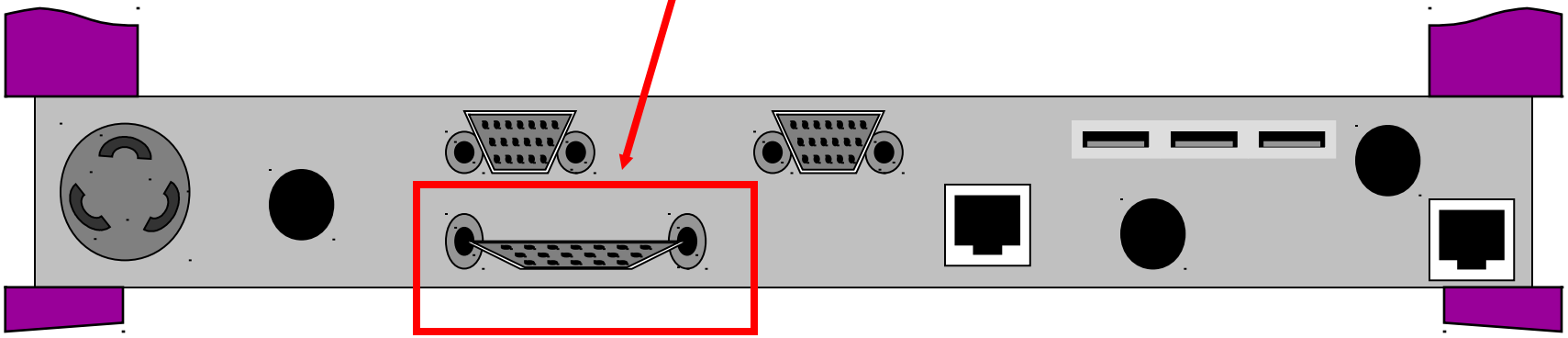


V2 Laptop Rear Panel

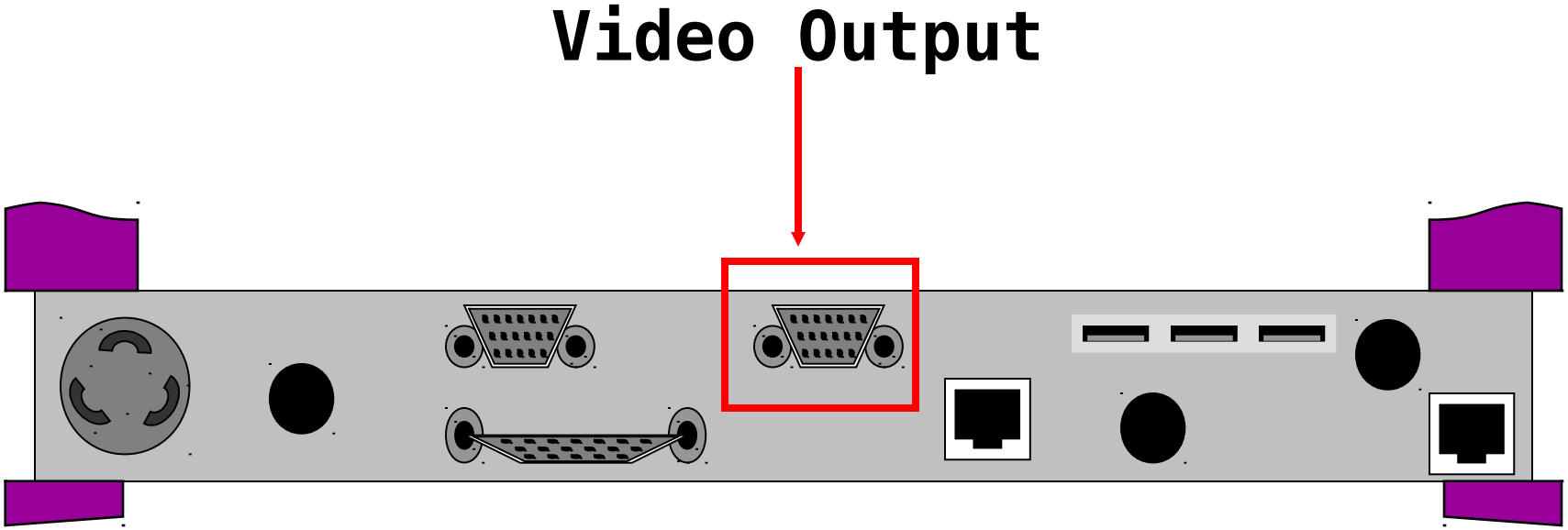


V2 Laptop Rear Panel

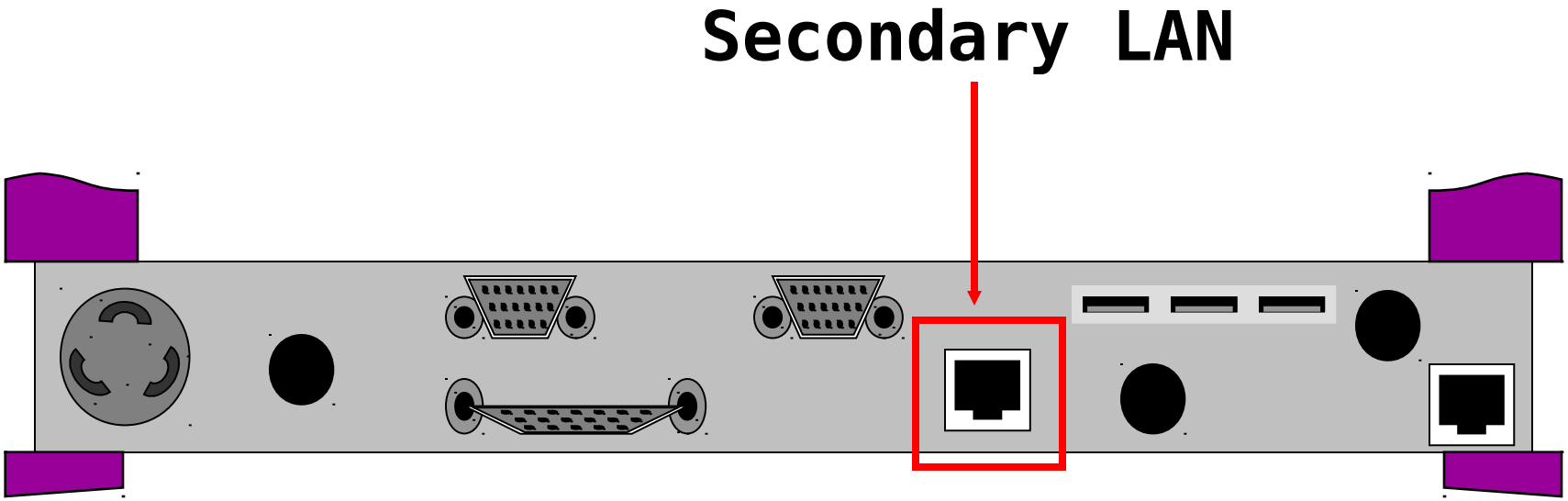
Parallel Printer Connector



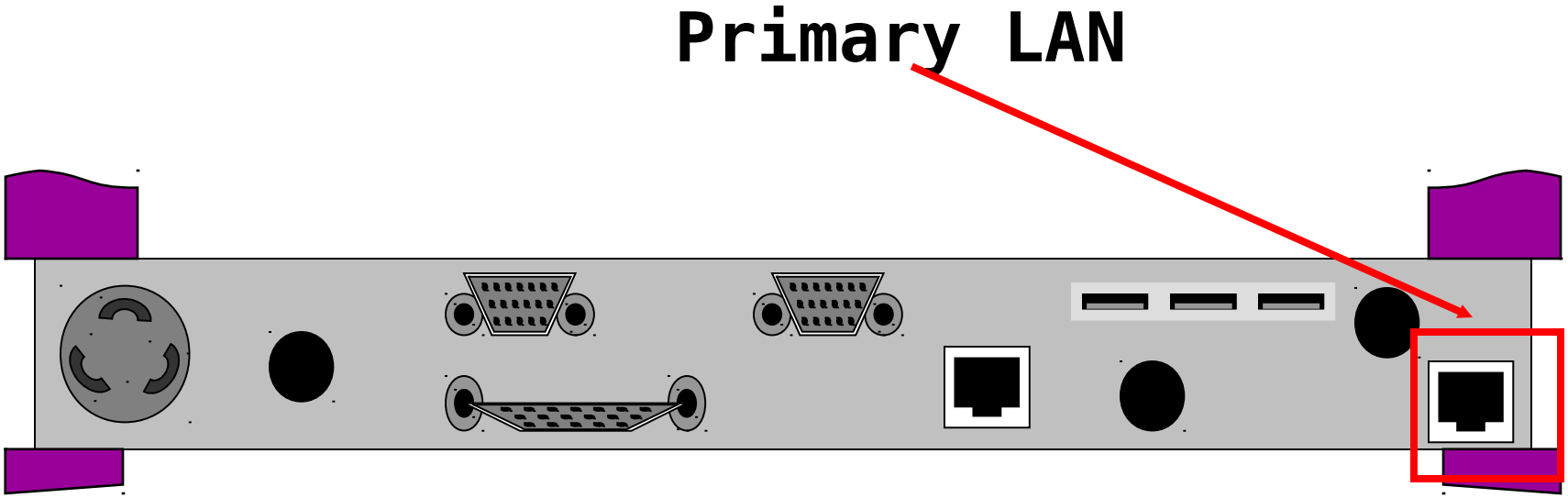
V2 Laptop Rear Panel



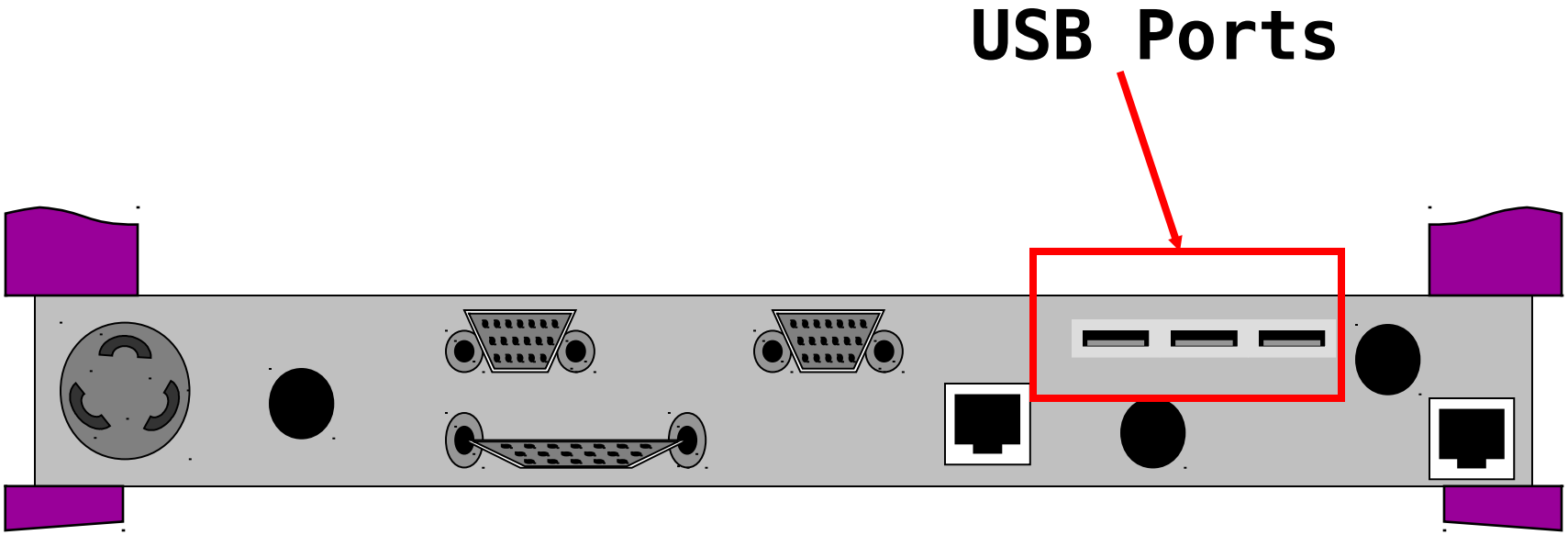
V2 Laptop Rear Panel



V2 Laptop Rear Panel



V2 Laptop Rear Panel



V2 Right Side

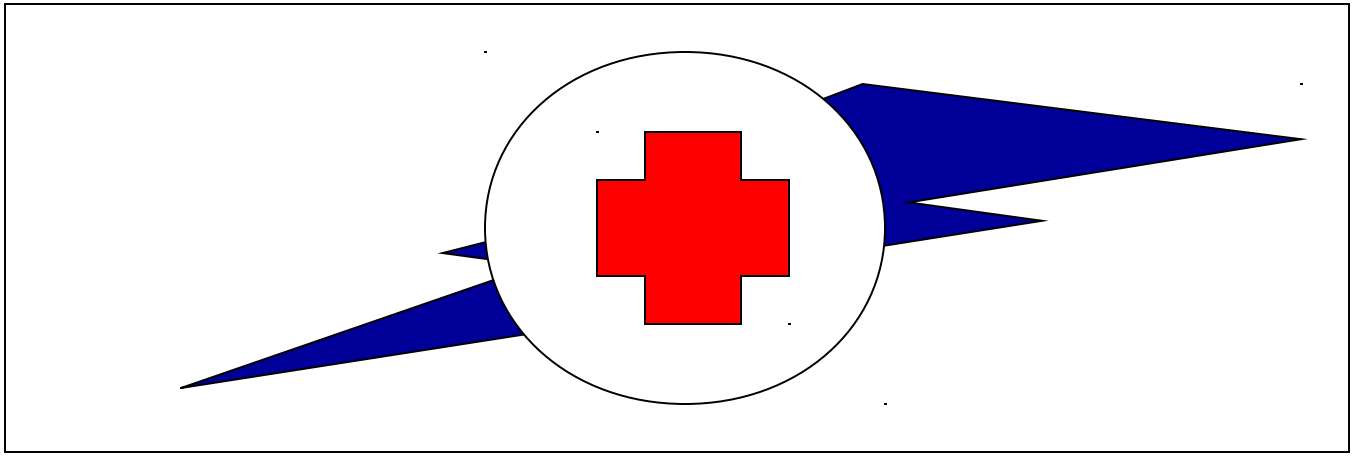
- The right side of the laptop contains two TACLINK 3000 TCIMS
  - Replaces the SPTCIMS
  - Bottom slot contains card 2 with channels 1 and 2
  - Top slot contains card 1 with channels 3 and 4

SOFTWARE VERSION

- The current version is 6.3.2 with Service Pack 2. Version 6.4 should be fielded mid 2005.

- Software updates have been fielded about every six months.

WARNING: HIGH VOLTAGE



DEATH ON CONTACT

May result if personnel fail to observe safety precautions

APPLY POWER

- *Cycle the power button.*

- *The system will boot automatically to the first informational window*

INFORMATIONAL WINDOWS

Three informational messages will display.

- Assign a new IP address?
- Assign a new net mask?
- Assign a new domain?
  - If changes need to be made they must be changed here.
- Select **<No>** for each prompt.

DII COE

Defense Information Infrastructure
Common Operating Environment

Provides a common operating system for all of the services to simplify digital communications.

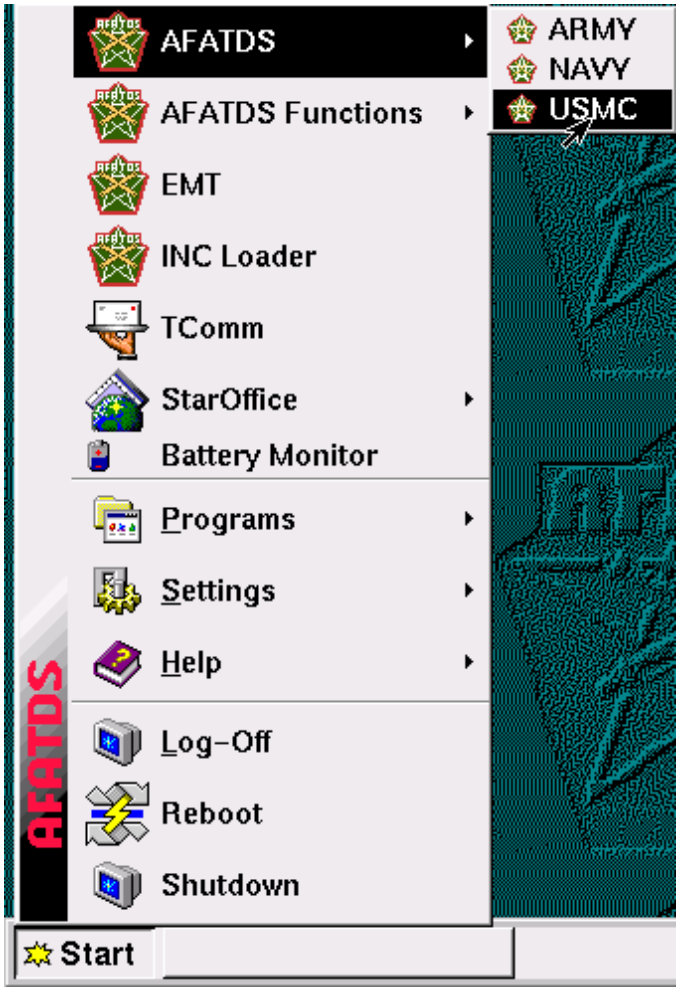
LOG-IN TO THE DII COE

- *Login:*
  - *afatds1 (lower case)*
  - *Enter*
- *Password:*
  - *afatds (lower case)*
  - *Enter*

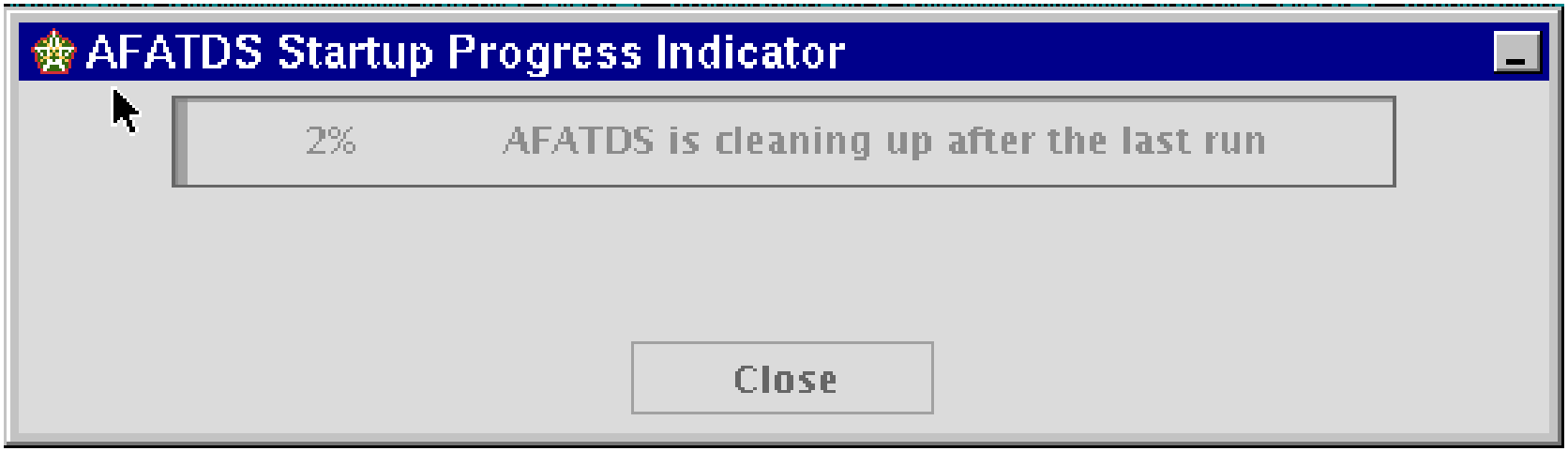
INFORMATIONAL MESSAGE

START AFATDS

- Click 1 on the **START** menu at the bottom of the screen.
- Select **AFATDS> USMC**

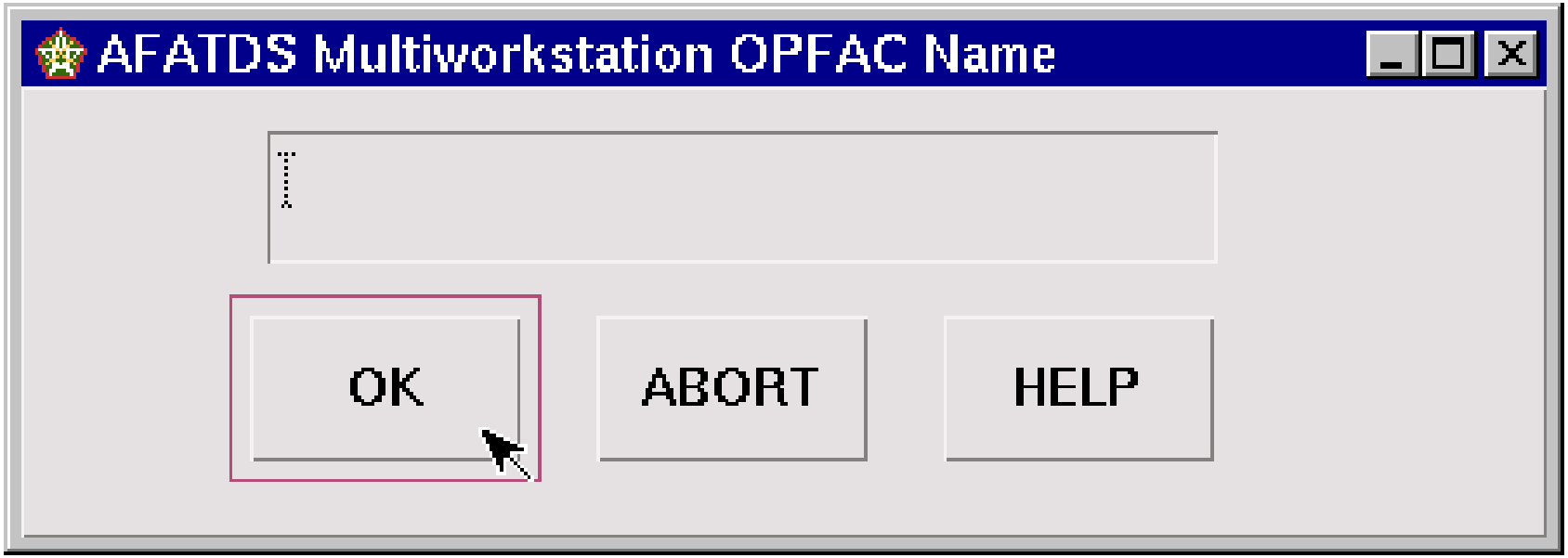


PROGRESS INDICATOR



AFATDS MULTIWORKSTATION

OPFAC NAME



- **<OK>** this window
- **Wait for** the UNIT CONFIGURATION WINDOW to appear!!!!

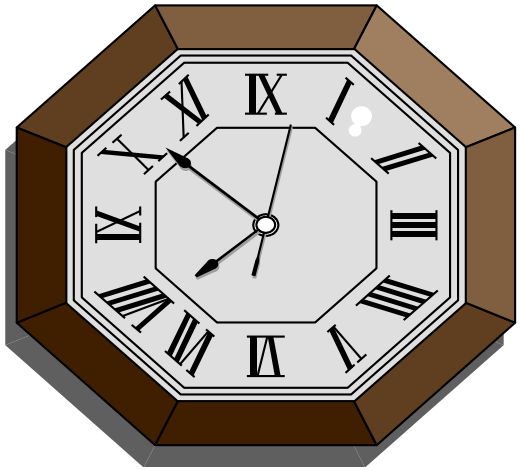
RESTORING A DATA BASE

- Restoring can be from a USB Flash Key, or CD-Rom
- Click **System> Administration> Restore Database**.
- Insert the CD into the CDROM.

RESTORING A DATA BASE

- Select **CD ROM** for the device
- **<OK>** The **Action: Open [Error]** message and **<Refresh>**
- Highlight the database to restore **MAOCC_DB1**
- **<Restore>**
- Once Restore is complete, **<Eject>** and **<Close> the Restore Database Window**

CLOCK-SYNCHRONIZATION



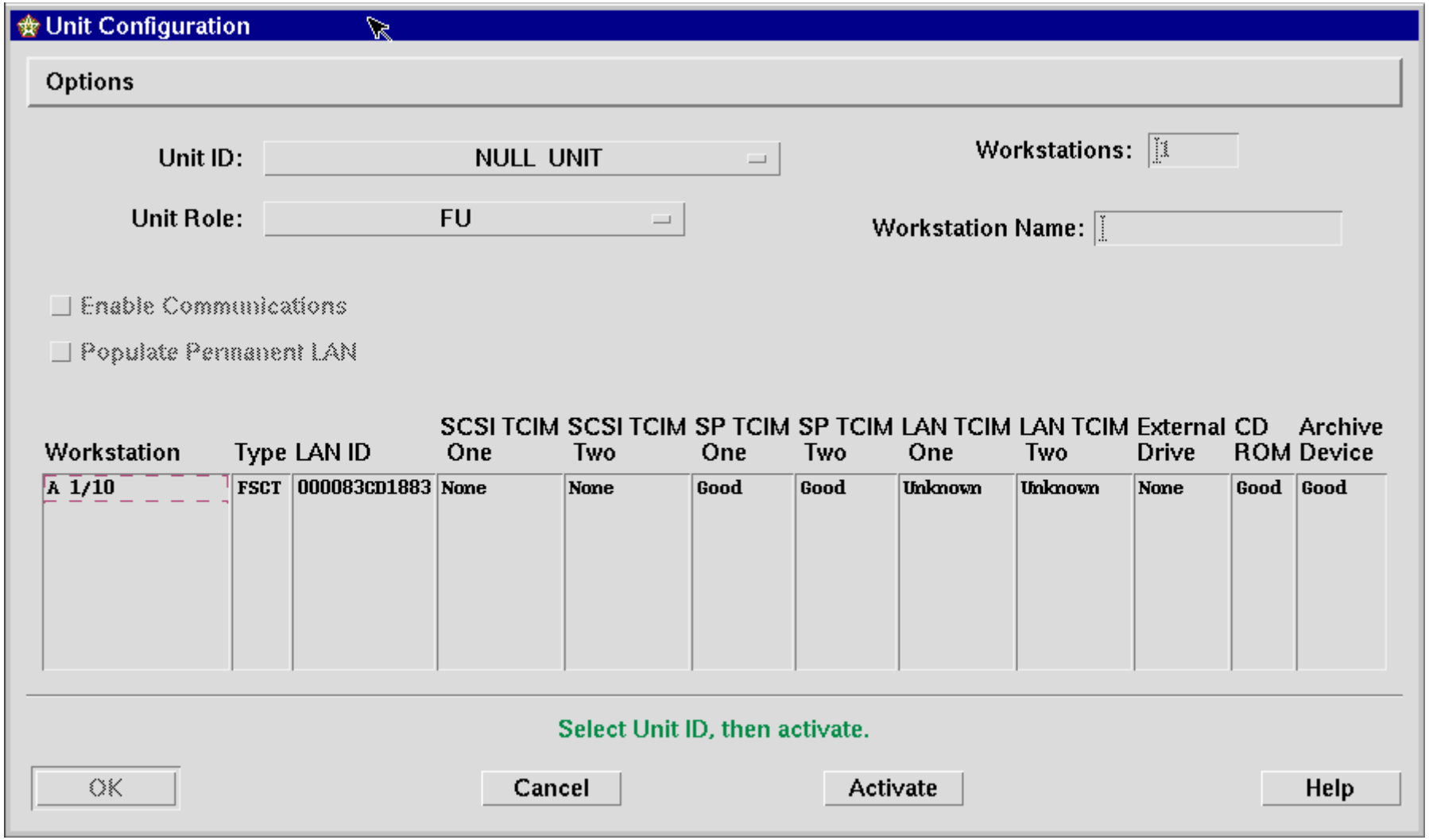
- Prior to activation - set forward or back any amount of time.

- After activation - set forward or back maximum of 5 minutes.

SET TIME AND ZONE

- Establishes the time zone and DTG for the display.
- Click **System> Administration> Set Times:**
  - TYPE **T** IN THE TIME ZONE FIELD.
  - Click **<SET ZONE>**
  - ENTER THE CORRECT DTG. **In Synchronize Field**
  - **AT THE TIME HACK**, Click **<SYNCHRONIZE>**

UNIT CONFIGURATION WINDOW



UNIT ID AND THE MASTER UNIT LIST

- Must select your unit from the Master Unit List (MUL) to do this:
- Click **Unit ID> Select**
- A LIST OF ALL UNITS is displayed
  - With which your unit can communicate
  - For which your unit can store data
  - For which your unit can process data
  - The list can be filtered

FILTERING THE MUL TO FIND YOUR UNIT

- Click one on **<Filters>**
- Select **Unit ID** which has six sub-fields
- In the **Regt** window triple click to get a **black bar** and type: **10**
- In the **Div** window triple click to get a **black bar** and type: **MARINES**
- **<Apply>** the window
- Scroll down until **A FDC 1st BN 10th Mar** or **B FDC 1st BN 10th Mar** is located.
- **Highlight your Unit** and **<OK>** the window.

UNIT ID AND ROLE

- UNIT ID should now read:

  A FDC or B FDC 1st Bn 10th Marines

- UNIT ROLE: defines what the system is;
  - **FSE/FSCC/SACC:** All Fire Support Coordination Centers (Infantry Battalions or Regiments)
  - **FA CP/FDC:** All Regimental and Battalion FDCs.
  - **FU:** All Battery FDCs.
  - **IUC:** Independent User Console, a Lightweight Computer Unit operating AFATDS in a limited capacity for situational awareness. (Army)
- Click **Unit Role> Select**
- Highlight: **FU**
- **<OK>** the window

EDIT WORKSTATION NAME

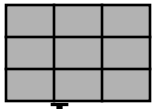
- Allows the operator to establish a name for each workstation allowing easy identification.
- Click 1 on the **workstation status line** on the Unit configuration window.
  - Workstation Number will display in the **WORKSTATION NAME** field.
  - Double Click In WORKSTATION NAME Type: **A FDC or B FDC**
  - Click 1 on the **workstation status line** on the Unit configuration window.
  - Workstation name at the top of the screen will change after a few seconds

ACTIVATING THE SYSTEM

- ***Before activating you must ensure that the following are correct:***
  - **TIME** IS CORRECT
  - UNIT ID: **A FDC or B FDC 1st Bn 10th Marines**
  - UNIT ROLE: **FU**
  - WORKSTATION NAME: **A FDC or B FDC**
- Click **<ACTIVATE>** and wait for ***Activated!*** to appear.
- **<OK>** the Unit Configuration Window and wait for the JMTK Map to appear, **Situations** to darken and the Progress Indicator to close.

PRINTER SETUP

- Select **Start> Programs> ESP Print Pro> ESP Print Pro** to open the Printer Manager window.
- To move the Printer Manager window from behind the Security Banner.



  - Double Click 1 on the Desktop Pager Icon
  - Click 2 and hold on the window labeled Printer and move (using the mouse pad) to the center of the screen.
  - Close the Fvwm Pager window.

PRINTER SETUP

Select **Action> Add <Next>**

- Printer Name: **Local**
- Description: **HP-6L LLP**
- Location: **Local**

<Next>

- Select **Parallel or USB Port**

<Next>

PRINTER SETUP

- Highlight **Sun IEEE-1284 Parallel Port #1**

  <Next>
- Manufacturer: Scroll down to find and highlight **HP**
- Model: Scroll down to find and highlight

  HP Laser Jet 6L Series, ESP Print Pro v4.4.1.7

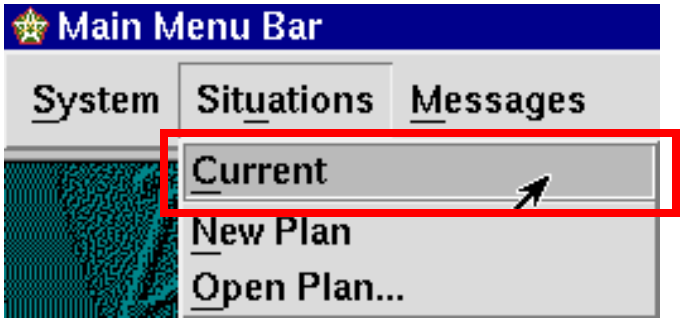
  <Next>

  <Close>
- The local printer will display in the Manger window.

OPEN CURRENT SITUATION

AFATDS Main Menu Bar

- Click **Situations> Current**



AFATDS Current Menu

- Click **Map> Display Map**

Note: The name of the bar changes according to what plan you are in.

MAP DATA

- Locations can be entered using:
  - UNIVERSAL TRANSVERSE MERCATOR
  - MILITARY GRID REFERENCE
  - LATITUDE and LONGITUDE

- All locations are stored and transmitted in UTM coordinates.

MAP MOD
LONG COORDINATES

AFATDS Current Menu Bar

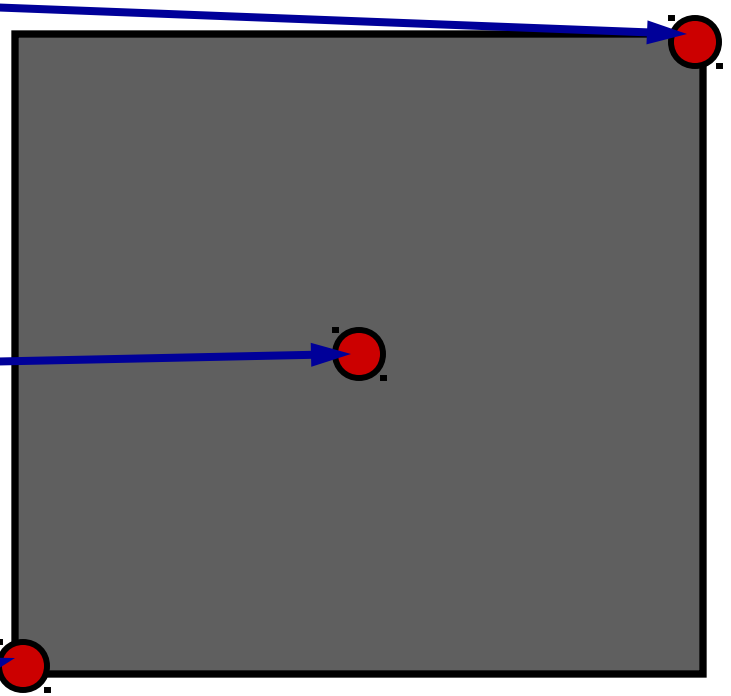
- Click **Map> Map Mod**

- The UTM system uniquely identifies a location using long coordinates

The default is **6 68185 000 00000 0 60**

REFERENCE GRID

- UPPER RIGHT
- CENTER
- LOWER LEFT



ENTERING MAP MOD COORDINATES

- Reference: **CENTER**
- False Easting: **5**
- Easting: **67000**
- False Northing: **038**
- Northing : **17000**
- Altitude: **0**
- Grid Zone: **11**

DATUM

- Arbitrarily chosen starting point for horizontal and vertical control. These also define a degree of flattening of the earth.
- Allow to Default to **WGS 84**
- **<OK>** the window
- **<OK>** the Alert Message
- Delete High Level Alert, **<OK>** the window

MAP SETUP

- Allows the operator to define the way the map will appear and where it will be centered each time the current situation is opened.
- Click **Map> Map Setup> In Use**
  - The MAP SETUP window is displayed.

MAP SETUP DATA

- MAP CENTER: **5 70000 038 12000 alt. 0 GZ 11**
- MAP SCALE: **1:100,000**
- OVERLAYS: NONE (will be discussed later)

<OK>

NOTE!!! ***You Must Exit Map and Re-enter the Current situation for the new map mod and map setup to take effect!***

BACKUP THE DATABASE

- Place the **Student CD** in the drive.
- Click **System> Administration> Backup Database**.
- Select CD
- Change the File Name (no spaces or /@$%)
- Click **<Archive>**, wait for "Archive Completed Successfully." Message
- **<Eject>** Unmounts the CDROM.
- **<Close>** the window

EXIT AFATDS

- Click **Situations> Exit Map, Confirm the exit.**
- Click **System> Exit AFATDS, Confirm the exit**. (WAIT FOR AFATDS IS SHUTDOWN MESSAGE)
- Click **Start> Shut down.**
- **Confirm the Shut down.**
- The Tadpole will shut down on its own..

QUESTIONS?

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